ProjectDesignPhase-II

SolutionRequirements(Functional&Non-functional)

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| Date | 03October2022 |
| Team ID | PNT2022TMID01551 |
| ProjectName | Project– ANovelMethodforHandwrittenDigit  Recognition System |
| MaximumMarks | 4Marks |

# FunctionalRequirements:

Followingarethefunctional requirementsoftheproposedsolution.

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| **FR No.** | **FunctionalRequirement(Epic)** | **SubRequirement(Story/Sub-Task)** |
| FR-1 | UserRegistration | Registrationthrough form |
| FR-2 | User Login | LoginviaregisteredUsernameandPassword |
| FR-3 | Uploadingimages | Able to inputthe handwrittenimagesintothe  application |
| FR-4 | Recognizingdigits | Displaytherecognizeddigitsfromtheinputimagesto  theuser |

# Non-functionalRequirements:

Followingarethe non-functionalrequirementsoftheproposed solution.

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| **FR No.** | **Non-FunctionalRequirement** | **Description** |
| NFR-1 | **Usability** | The application needs to respond smoothly so thattheusercanusetheapplicationeffectivelyandneed  to beanuserfriendlyapplication. |
| NFR-2 | **Security** | Ensurethesecuritybyauthenticatingtheusers  usingtheirusernameandpassword. |
| NFR-3 | **Reliability** | Theapplicationdoesnotshowanyerrorduringthe  recognitionofthedigitsfrom the uploadedimages. |
| NFR-4 | **Performance** | Needs torespondfast andprovidetheoutputeven  forthecomplexhandwritings. |
| NFR-5 | **Availability** | Need to available for all users at any time and canabletoinput thehandwritten imagesto the  applicationeasily. |
| NFR-6 | **Scalability** | Itcanabletohandle Nnumbersofusers at the  same time with faster response and recognize thedigitseffectively. |